

Abstract

A server computer, such as for a wireless application service provider, connected to a network, for example, the Internet, prioritizes transmissions according to data types. The server computer includes a parser and respective queues for each of the different data types. The server computer, for example, receives a Web page, parses it to segregate data types of the page, and stores the separate data types in distinct and segregated queues. In transmissions to a client device, for example, a wireless device communicating with the server computer over a wireless channel, the server computer sends the data in sequence from the respective queues, according to a prioritized sequence set at the server computer.

A server computer, such as of the wireless application service provider, alternatively or additionally communicates with the client device, such as the wireless device, a smaller amount of information than requested by the client device and received by the server computer. At the server computer, the information is pre-processed and data sequences of the information are replaced with defined identifiers. Only the information with the defined identifiers substituted for the data sequences is communicated by the server computer to the client device. The client device, on receiving such reduced quantity of information, re-constructs the original information by substituting back the data sequences for the defined identifiers.